L13 ANSWER 1 OF 1 CA COPYRIGHT 2009 ACS on STN
AN 85:112216 CA
OREF 85:17987a,17990a
ED Entered STN: 12 May 1984
TI Heat-resistant lightweight building material
IN Yamada, Haruo; Tanaka, Tamotsu; Kume, Tokuo; Nakajima, Mikio; Fukawa, Eiji; Yamahara, Ichiro; Sakata, Masamichi
PA Nippon Oils & Fats Co., Ltd., Japan; Nihon Flash Co., Ltd.; Nihon Funen K. K.
SO Jpn. Kokai Tokkyo Koho, 3 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC C04B021-08
CC 58-5 (Cement and Concrete Products)
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 51083624	A	19760722	JP 1975-8426	19750120
JP 54030408	B	19791001		
PRAI JP 1975-8426	A	19750120		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 51083624	IC	C04B021-08
	IPCI	C04B0021-08; C04B0021-10

AB Inorg. foams, water glass [1344-09-8] hardening agent, inorg. fibers, Al(OH)3, polyhydric alc., and anionic surfactant are mixed, shaped, and hardened to obtain heat-resistant lightwt. building materials. Thus, Shirasu microspheres 12, water glass 32 kg, and anionic surfactant 200 g were dissolved in 1 kg water, and asbestos 3, Al(OH)3 3.5, Na2SiF6 [16893-85-9] 2.2 kg, and ethylene glycol [107-21-1] 600 g were successively added. The mixture was molded, hardened at room temperature, and cured at 95-100° for 12 hr. The hardened product had d. 0.4 g/cm3, compressive strength 35.5, and bending strength 15.0 kg/cm2, and passed heat resistance test JISA 1304. When the product was dipped in boiling water for 24 hr, no changes were observed
ST Shirasu lightwt building material; water glass lightwt building material; aluminum hydroxide lightwt building material
IT Asbestos
Shirasu
RL: USES (Uses)
(in sodium silicate waterproof products)
IT Building materials